TITLE: A METHOD AND SYSTEM FOR CONTROLLING THE PROCESSING OF AN INTEGRATED CIRCUIT CHIP ASSEMBLY LINE USING A CENTRAL COMPUTER SYSTEM AND A COMMON COMMUNICATION PROTOCOL

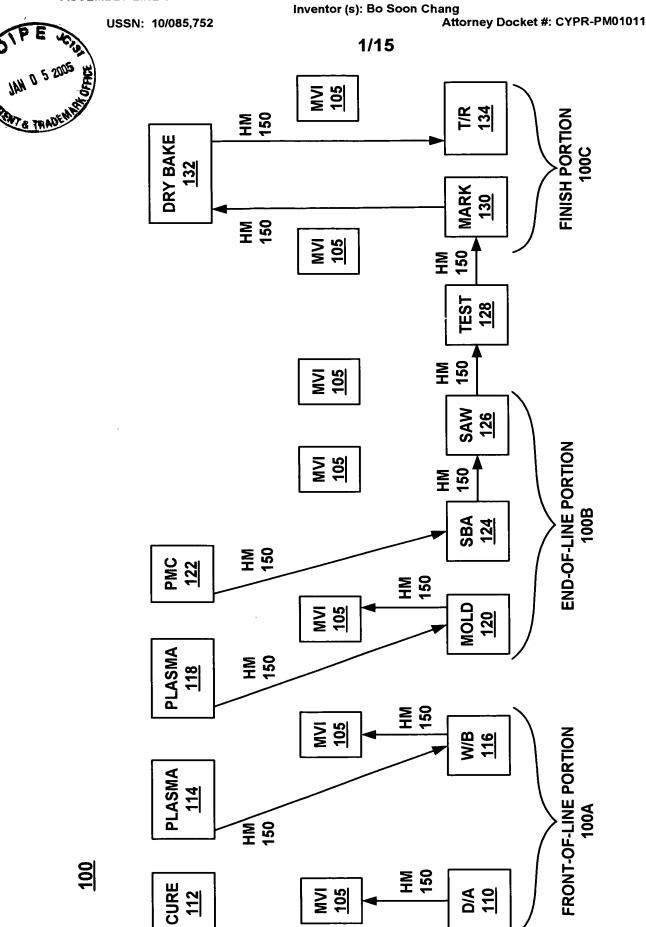


FIGURE 1

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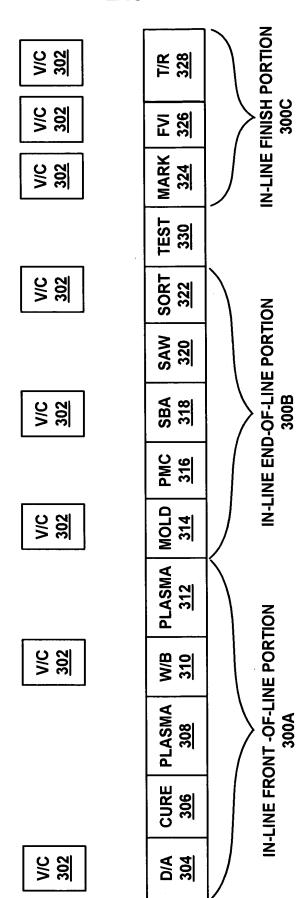


FIGURE 2

TITLE: A METHOD AND SYSTEM FOR CONTROLLING THE PROCESSING OF AN INTEGRATED CIRCUIT CHIP ASSEMBLY LINE USING A CENTRAL COMPUTER SYSTEM AND A COMMON COMMUNICATION PROTOCOL

Inventor (s): Bo Soon Chang

USSN: 10/085,752

Attorney Docket #: CYPR-PM01011

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IN-LINE FRONT-OF-LINE PORTION 300A

V/C 302 V/C 302

D/A CURE PLASMA W/B PLASMA 304 306 308 310 312
--

FIGURE 3A

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IN-LINE END-OF-LINE PORTION 300B

V/C 302 V/C 302

V/C 302

MOLD	PMC	SBA	SAW	SORT
314	<u>316</u>	318	<u>320</u>	322

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IN-LINE FINISH PORTION 300C

V/C <u>302</u> V/C 302

V/C 302

MARK FVI T/R 324 326 328 Inventor (s): Bo Soon Chang

USSN: 10/085,752 Attorney Docket #: CYPR-PM01011

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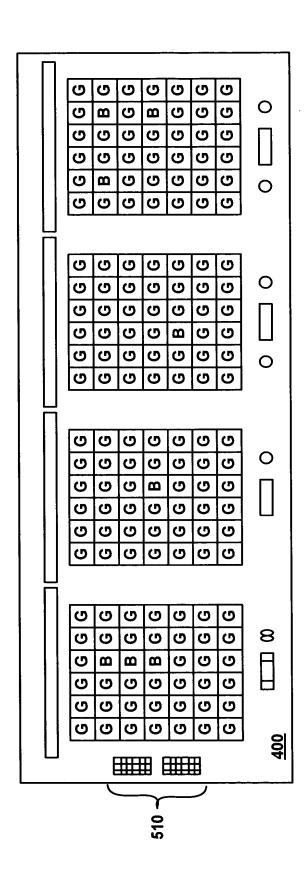


FIGURE 4

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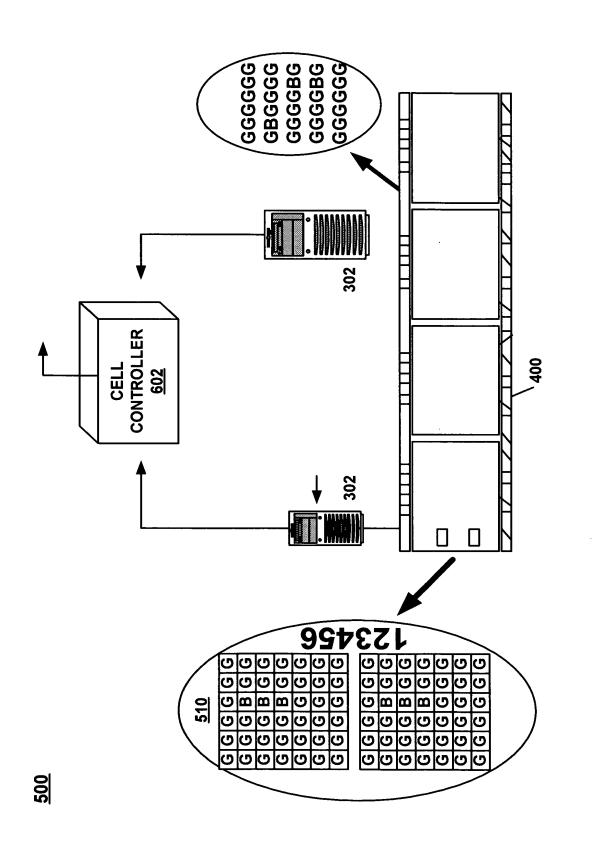
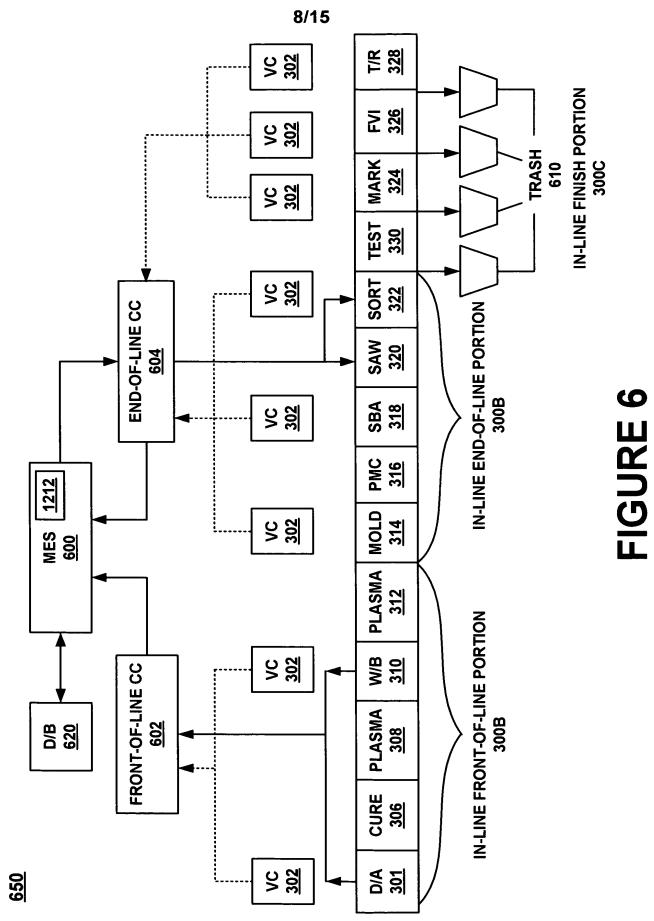
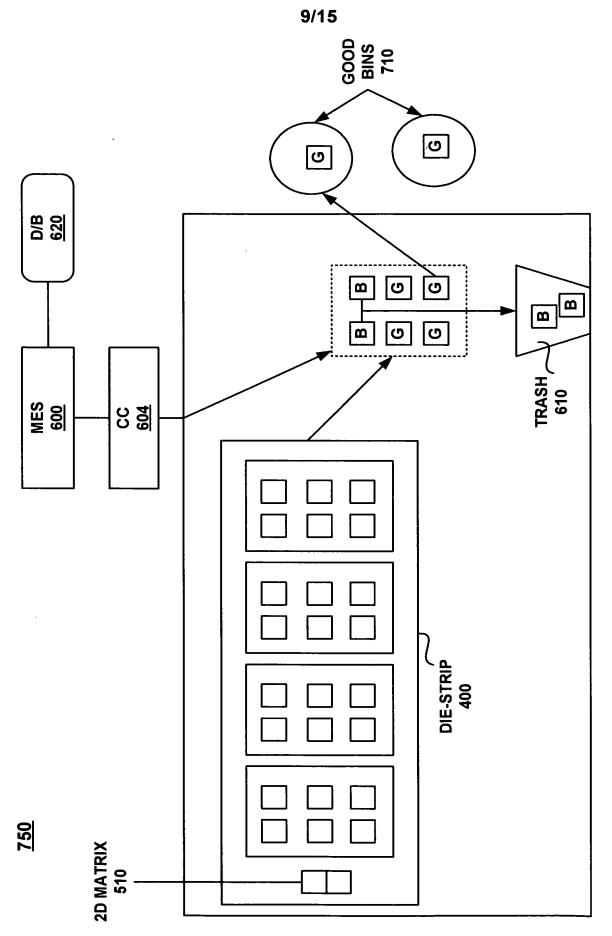


FIGURE 5



Attorney Docket #: CYPR-PM01011



Inventor (s): Bo Soon Chang USSN: 10/085,752 Attorney Docket #: CYPR-PM01011 10/15 800 **START** PROCESSING A DIE-STRIP THROUGH A FRONT-OF-LINE ASSEMBLY PORTION WHICH COMPRISES A PLURALITY OF SUB-STATIONS OPERATING ON AN IN-LINE BASIS 802 AUTOMATICALLY PROVIDING THE DIE-STRIP TO AN END-**OF-LINE ASSEMBLY PORTION** 804 PROCESSING THE DIE-STRIP BY THE END-OF-LINE ASSEMBLY PORTION WHICH COMPRISES A PLURALITY OF SUB-STATIONS OPERATING ON AN IN-LINE BASIS 806 **AUTOMATICALLY PROVIDING THE DIE-STRIP TO A TEST ASSEMBLY PORTION** 808 TESTING THE DIE-STRIP USING THE TEST ASSEMBLY **PORTION** 810 AUTOMATICALLY PROVIDING THE DIE-STRIP TO A FINISH ASSEMBLY PORTION 812 PROCESSING THE DIE-STRIP BY THE FINISH ASSEMBLY PORTION WHICH COMPRISES A PLURALITY OF SUB-STATIONS OPERATING ON AN IN-LINE BASIS 814 **END**

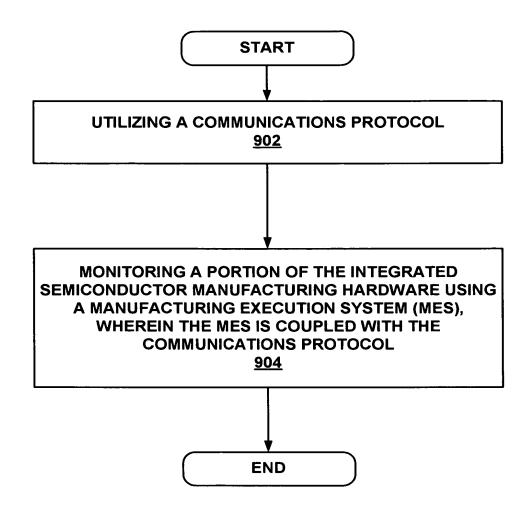
Inventor (s): Bo Soon Chang

USSN: 10/085,752

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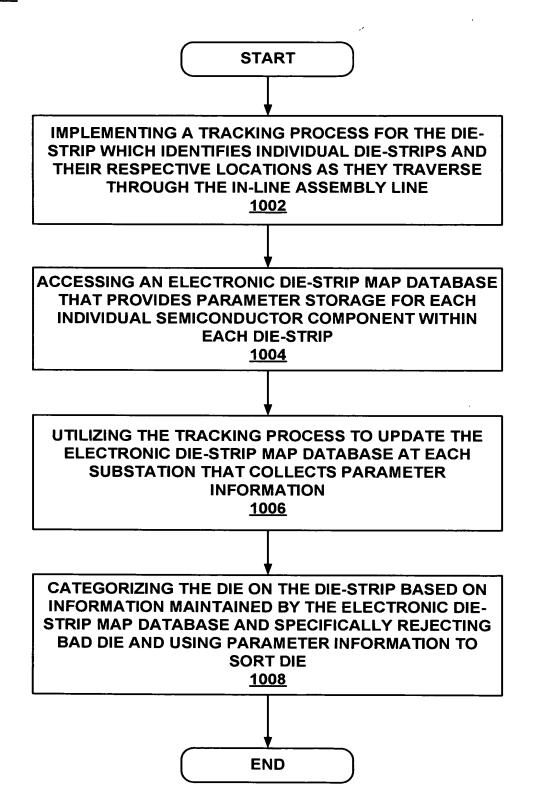
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<u>1000</u>

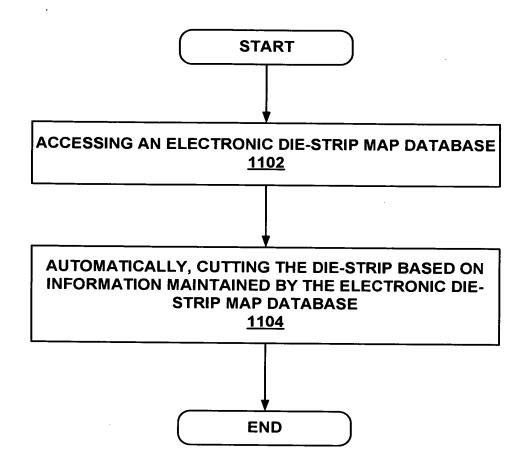
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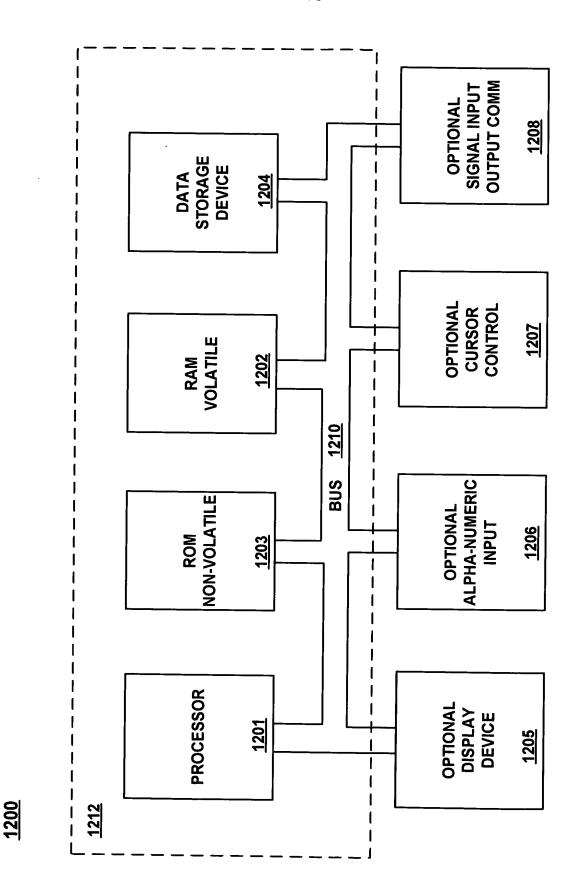


FIGURE 12

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15/15 DIE-STRIP i + 604 MES 600 D/B 620 602 DIE-STRIP C + 2 E1 - MOLD MES 600 F3 - W B2 F4 - W B3 F6 - W B5 F7 - W B6 F9 - W B8 E3 - SBP **- SSS** F5 - W B4 F2 - W B1 F8 - W B7 E2 - PMC F1 - DA **E**4 DIE-STRIP C+ E1 - MOLD F5 - W B4 F3 - W B2 F4 - W B3 F6 - W B5 F7 - W B6 F8 - W B7 F9 - W B8 **E2 - PMC** - SBP **SSS** -F1 - DA F2 - W B1 **E3 E**4 QA Z 1320 DIE-STRIP C F6 - W B5 E1 - MOLD F3 - W B2 F7 - W B6 F4 - W B3 F5 - W B4 F9 - W B8 - SBP F1 - DA F2 - W B1 F8 - W B7 **E2 - PMC** SSS QA 1 1310 E3 7 **A005** LOF 300B EOF

205/804

CELL CONTROLLER

FIGURE 13